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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,850	07/20/2006	Hidekazu Kimura	Q96083	3460	
23373. 1229/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAM	EXAMINER	
			MARTIN, ANGELA J		
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com PPROCESSING@SUGHRUE.COM USPTO@SUGHRUE.COM

Application No. Applicant(s) 10/586.850 KIMURA ET AL. Office Action Summary Examiner Art Unit ANGELA J. MARTIN 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 August 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-3 and 5-10 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3 and 5-10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SD/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/586,850 Page 2

Art Unit: 1795

DETAILED ACTION

This Office Action is responsive to the Amendment filed on August 25, 2009. The Applicant amended claim 1 and canceled claim 4. However, the rejection is made final for the following reasons of record.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3, 5, 6, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prasad et al., U.S. Pat. Application 2003/0082427 A1, in view of Goodman, U.S. Pat. Application Pub. 2004/0173615.

Rejection of claims drawn to a fuel cartridge.

Prasad et al., teach a fuel cartridge for a fuel cell, that is stored with liquid fuel to be supplied to a fuel electrode in the fuel cell and that is attachable and detachable to/from said fuel cell, is characterized in that the fuel cartridge comprises: a fuel storage chamber whose an inner surface is made of resin that is resistant to said liquid fuel; a case that contains said fuel storage chamber internally and that is made of impact-resistant resin; and a fuel supply part that is connected to said fuel storage chamber and that supplies said liquid fuel to said fuel cell (0021-0034; Fig. 2). The fuel cartridge for the fuel cell according to claim 1 is characterized in that said inner surface of said

Art Unit: 1795

fuel storage chamber is made of alcohol-resistant resin (0021-0034). The fuel cartridge for the fuel cell according to claim 1 or 2 is characterized in that said fuel storage chamber is made of a bag-shaped member that is made of a flexible resin material (0021-0034). The fuel cartridge for the fuel cell according to claim 1 or 2 is characterized in that said fuel storage chamber and said case are jointly integrated (Fig. 2). The fuel cartridge for the fuel cell according to claim 1 or 2 is characterized in that the fuel cartridge comprises a pressure adjustment member for adjusting an inner pressure of said fuel storage chamber (0021-0034). The fuel cartridge for the fuel cell according to claim 7 is characterized in that said pressure adjustment member includes a gas-liquid separation film (0021-0034). The fuel cartridge for the fuel cell according to claim 1 or 2 is characterized in that the fuel cartridge comprises a vent that passes through said case (0021-0034). A fuel cell is characterized in that the fuel cell comprises a fuel cell main body having a fuel electrode and a fuel cartridge for the fuel cell according to claim 1 or 2, which is stored with liquid fuel to be directly supplied to said fuel electrode (abstract). Claim 10 seeks to protect a fuel cell, said fuel cell comprising the fuel cartridge according to any one of claims 1-9. Because claims 1-9 do not possess novelty or inventiveness, furthermore, Document 1 also discloses the following technical features (see paragraph [0020], and Fig. 1 of the specification of Document 1): fuel cell 12 comprises a fuel cell main body having a fuel electrode and a fuel supply 20 which is stored with liquid fuel to be directly supplied to the fuel electrode.

Prasad et al., do not teach the specific impact resistant resin.

Art Unit: 1795

Goodman teaches poly(vinyl chloride), high density poly(ethylene), polycarbonate, poly(ethylene terephthalate), poly(propylene), polyurethane, suitable copolymers thereof and mixtures thereof (0017).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to insert the teachings of Goodman into the teachings of Prasad et al., because Goodman teaches that: "Suitable polymers for rigid outer container 101 include, for example, poly(vinyl chloride), high density poly(ethylene), polycarbonate, poly(ethylene terephthalate), poly(propylene), polyurethane, suitable copolymers thereof and mixtures thereof. The choice of specific outer container material can generally be determined by desired characteristics of a particular application."

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Prasad et al., U.S. Pat. Application 2003/0082427 A1, in view of Goodman, U.S. Pat.
 Application Pub. 2004/017361, and in further view of Yonetsu et al., U.S. Pat. No. 6,506,513 B1.

Art Unit: 1795

Prasad et al., teach a fuel cartridge as described above.

Goodman teaches a fuel cartridge as described above.

Yonetsu et al., discloses a liquid fuel-housing tank for fuel cell, and specifically discloses the following technical features (see lines 1-16, column 6, and Fig. 3): the fuel tank is provided with hole 6, and a selectively permeable membrane is mounted to the hole 6; said membrane has a low permeability of the liquid fuel and relatively high permeability of a gas, thereby it can adjust the inner pressure of the fuel storage chamber (corresponding to the pressure adjustment member in claim 7 of the present application). It can be seen that the additional technical feature of claim 7 has been disclosed, and said feature plays the same role as in the present application, that is, for adjusting an inner pressure of the fuel storage chamber. Namely, it provides the technical inspiration of applying the above-mentioned feature to Prasad et al. to further solve the technical problem thereof. Therefore, when claims cited by claim 7 do not possess novelty or inventiveness, claim 7 does not possess inventiveness. Claim 8 further defines claim 7. However, Yonetsu et al. discloses the following technical feature (see lines 1-16, column 6, and Fig. 3 of the specification of Yonetsu et al.): the membrane has a low permeability of the liquid fuel and a high permeability of a gas, thereby it corresponds to the gas-liquid separation film in claim 8 of the present application. It can be seen that the additional technical feature of claim 8 has been disclosed in Yonetsu et al.

Application/Control Number: 10/586,850 Page 6

Art Unit: 1795

Response to Arguments

5. Applicant's arguments filed 8/25/09 have been fully considered but they are not persuasive. Applicant argues that "Prasad does not suggest that an outer container and an inner container are jointly integrated." However, the fuel storage chamber in Prasad (ref 24) appears to be jointly integrated with the case (ref 22) as depicted in Fig. 2-4. Applicant argues that ."the pressurizer of Prasad is different from the pressure adjustment member of the present application." However, as described in paragraph 0039 of Prasad, "[0039] Fuel supply 20 may also include a pressurizer to increase the pressure within fuel storage area 24 slightly relative to the pressure outside of the fuel storage area. This helps to ensure reliable flow of fuel from the fuel storage area, regardless of any changes in atmospheric pressure. Any suitable mechanism may be used to pressurize fuel storage area 24".

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 1795

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA J. MARTIN whose telephone number is (571)272-1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM Examiner, Art Unit 1795

/Dah-Wei D. Yuan/ Supervisory Patent Examiner, Art Unit 1795